## EXPRESS MAIL NO. EV334001476US Attorney Docket UCAL-305CON4 **INFORMATION** First Named Inventor CLARY, DOUGLAS O. DISCLOSURE STATEMENT **Application Number** To Be Assigned Confirmation No. To Be Assigned Filing Date August 25, 2003 Address to: Group Art Unit To Be Assigned Mail Stop Patent Application **Examiner Name** To Be Assigned Commissioner for Patents P.O. Box 1450 Title: "ANTIBODIES THAT MIMIC ACTIONS OF Alexandria, VA 22313-1450 **NEUROTROPHINS**"

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration. A Form PTO-SB/08A listing the references and copies of the cited references accompany this paper. Applicants would appreciate the Examiner's initialing and returning the form to indicate that the references have been reviewed and made of record.

All of the references identified herein were disclosed in parent application serial number 09/770,949, filed January 26, 2001 and as such, copies thereof are not included pursuant to the provisions of 37 CFR § 1.98(d).

This Information Disclosure Statement is not intended as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one of the above references constitutes prior art to the present application within the meaning of 35 U.S.C.§102.

As applicants have not yet received a first Action on the merits, no fee is believed to be required for filing this Disclosure Statement. If, however, the PTO finds that for some reason a fee is due, our Deposit Account No. 50-0815, Order No. UCAL-305 may be charged thereon.

Respectfully submitted, BOZICEVIC, FIELD & FRANCIS LLP

late: AL

Aug. 25, 2003

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Paula A. Borden Registration No. 42,344 IN

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Substitute for form 1449A/PTO		Complete if Known
	Application Number	09/770,949
INFORMATION DISCLOSURE	Filing Date	January 26, 2001
STATEMENT BY APPLICANT	First Named Inventor	
	Group Art Unit	1642
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				U.S. PATENT DOCUM	MENTS	
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	AA	5,231,001	A	Kaplan, et al.	07-27-1993	
	AB	5,753,225	A	Clary, et al.	05-19-1998	
	AC	5,877,305	А	Huston, et al.	03-02-1999	
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Examiner Initials*	Cite No. <sup>1</sup>	Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> ( <i>if</i> <i>known</i> )	Name of Patentee or Applicant of Cited Document	Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup> :
	AD	EPO	92/16559	A1	The United States of America, Secretary	10-01-1992		
	AE	EPO	WO 92/18149	A1	Regenerson Pharmaceuticals, Inc.	10-29-1992		
	AF	EPO	0471205	A1	E.R. Squibb & Sons, Inc.	02-19-1992		,

Examiner Signature	Date Considered	

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<sup>1</sup> Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Filing Date	January 26, 2001
STATEMENT BY APPLICANT		PPLICANI	First Named Inventor		
				Group Art Unit	1642
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	<del></del>	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
	AG	Alberts, et al. "Molecular Biology of the Cell" Garland Publishing Inc. (N.Y) (1989), pp. 333-334.	
	АН	Barde, Y.A., "Tropic Factors and Neuronal Survival" Neuron. (1989) Vol. 2, pp. 1525-1534.	
	Al	Barker, et al. "The Nerve Growth Factor Receptor: A Multicomponent System that Mediates the Actions of the Neurotrophin Family of Proteins" Molecular and Cellular Biochemistry (1992) Vol. 110, p. 1-15.	
	AJ	Bolhuis, et al. "Functional Expression of a Single Chain FV/γ Receptor with Renal Cell Carcinoma Specificity in Activated Human PBL" Third Meeting of the European Working Group of Human Gene Transfer and Therapy, Barcelona, Spain (November 17-20, 1995) Gene Therapy 2 (Suppl. 1):S21 ISSN: 0969-7128.	
	AK	Bolhuis, et al. "ScFv/gamma Antibody Receptors on Human Cytotoxic T Lymphocytes (CTL) Bind Antigen, Transduce Activation Signals and Respond to Co-regulatory Signals" Joint Meeting of the American Academy of Allergy, Asthma and Immunology, the American Association of Immunologists and the Clinical Immunology Society San Francisco, California, USA (February 21-26, 1997) J. Allergy Clin Immunol 99 (1,Pt2):S116, 1997 ISSN: 0091-6749.	
	AL	Casten, et al. "Anti-immunoglobulin Augments the B-Cell Antigen-presentation Function Independently of Internalization of Receptor-Antigen Complex" Proc. Natl. Acad. Sci. USA (September 1985) Vol. 82, pp. 5890-5894.	
	AM	Collazo, et al. "Cellular Targets and Trophic Functions of Neurotrophin-3 in the Developing Rat Hippocampus" Neuron (October 1992) Vol. 9, pp. 643-656.	
	AN	Cordon-Cardo, et al. "The trk Tyrosine Protein Kinase Mediates the Mitogenic Properties of Nerve Growth Factor and Neurotrophin-3" Cell (1991) Vol. 66, pp. 173-183.	
	AO	Drebin, et al. "Down-Modulation of an Oncogene Protein Product and Reversion of the Transformed Phenotype by Monoclonal Antibodies" Cell (July 1985). Vol. 41, pp. 695-706.	

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Sheet 3 of 6	Examiner Name Attorney Docket Number	
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	AP	Monoclonal Antibodies" Onc. (May 1991) Vol. (18)	+
	AQ	Eide, et al. "Neurotrophins and Their Receptors- Current Concepts and	+
,	AR	Fan, et al. "Regulation of Epidermal Growth Factor Receptor in NIH3T3/UED44.  Cells by Antireceptor Manager and Company of the	-
	AS	Fraser, et al. "TCP-11, the Product of a Mouse t-complex Gene, Plays a Role in Reaction" Molocular Reproduction and Development (1997), Vol. 48	
	АТ	Pheochromocytoma Cells Which Respond to Nerve Growth Factor Programme Acad. Sci. USA (1976) Vol. 70	
	AU	Goroff, et al. "Participation of IgGFe Receptor (FeγR) in in vivo B-cell Activation pp. 1204.	
	AV	Phylogeny of the Catalytic Domains, O. Conserved Features and Deduced	
	AW	IL-8 Receptors and Induces Neutrophil Activation" Cytokine (March 1992)	
	AX	Holtzman, et al. "p140 <sup>trk</sup> mRNA Marks NGF-Responsive Forebrain Neurons: Evidence that trk Gene Expression is Induced by NGF" Neuron (1992) Vol. 9, pp. 465-478.	_
	AY	PC12 Cells" J. Biol. Chem. (1995)	
	AZ	Hutton, et al. "Expression of p75 TrkA and TrkB, mRNA in Rat C6 Glioma and Type I Astrocyte Cultures" J. of Neurosciences Research (1992), Vol. 32, pp. 375-383.	

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Substitu	te for form 1449	B/PTO			Complete If Known	
INE	INFORMATIO STATEMENT	EODMATION DISCLOSURE			Applicati n Number	09/770,949
				Filing Date	January 26, 2001	
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				Group Art Unit	1642	
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Sheet	4	of	6	Attorney Docket Number	02307G-054130US	

	···	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AAA	Jing, et al. "Nerve Growth Factor Mediates Signal Transduction Through trk Homodimer Receptors" Neuron. (1992) Vol.9, pp. 1067-1079.	
	AAB	Johnson, et al. "Expression and Structure of the Human NGF Receptor" Cell (1986) Vol. 47, pp. 545-554.	
	AAC	Kaplan, et al. "The trk Proto-Oncogene Product. A Signal Transducing Receptor for Nerve Growth Factor" Science (1991) Vol. 252, pp.554-558.	
	AAD	Kaplan, et al. "Tyrosine Phosphorylation and Tyrosine Kinase Activity of the trk Proto-oncogene Product Induced by NGF" Nature (1991) Vol 350, pp. 158-160.	
	AAE	Klein, et al. "trkB, A Novel Tyrosine Protein Kinase Receptor Expressed During Mouse Neural Development" Embro. J. (1989) Vol. 8(12), pp. 3701-3709.	
	AAF	Klein, et al. "The trk Proto-oncogene Encoes a Receptor for Nerve Growth Factor" Cell (1991) Vol. 65, pp. 189-197.	
	AAG	Knusel, et al. "K-252 Compounds: Modulators of Neurotrophin Signal Transduction" J. of Neurochemistry (1992) Vol. 59, pp. 1987.	
	AAH	Korsching, S. "The Neurotrophic Factor Concept: A Reexamination" Neorosci. (1993) Vol. 13, pp. 2739-2748.	
	AAI	Lamballe, et al. "trkC, A New Member of the trk Family of Tyrosine Protein Kinases, is a Receptor for Neurotrophin-3" Cell (1991) Vol. 66, pp. 967-979.	
	LAA	Levi-Montalcini, R. "The Nerve Growth Factor 35 Years Later" Science (1987) Vol. 237, pp. 1154-1162.	
	AAK	Loeb, et al. "NGF and Other Growth Factors Induce an Association Between ERK1 and the NGF Receptor, gp140 <sup>prototrk,</sup> Neuron (1992) Vol. 9, pp. 1053-1065.	
	AAL	Martin-Zanca, et al. "Molecular and Biochemical Characterization of the Human trk Proto-Oncogene" Mol. Cell. Biol. (1989) Vol. 9, pp. 24-33.	
	AAM	Martin-Zanca, et al. "Expression of the trk Proto-Oncogene is Restricted to the Sensory Cranial and Spinal Ganglia of Neural Crest Origin in Mouse Development" Genes Dev. (1990) Vol. 4, pp. 683-694.	

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INFO	RMATI	סום ואס	CLOSURE	Application Number	09/770,949	
				Filing Date	January 26, 2001	
STATEMENT BY APPLICANT				First Named Invent r		
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Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
	AAN	Meakin, et al. "Molecular Investigations on the High-Affinity Nerve Growth Factor Receptor" Neuron (1991) Vol. 6, pp. 153-163.				
	AAO	Middlemas, et al. "trkB, a Neural Receptor Protein-Tyrsoine Kinase: Evidence for a Full-Length and Two Truncated Receptors" Mol. Cell. Biol. (1991) Vol. 11, pp. 143-143.				
	AAP	Obermeirer, et al. "Tyrosine 785 is a Major Determinant of Trk- Substrate Interaction" Ebmbro. J. (1993) Vol. 12, pp. 933-941.				
	AAQ	Ohmichi, et al. "Nerve Growth Factor Binds to the 140 kd trk Proto-Oncogene Product and Stimulates its Association with the src Homology Domain of Phospholipase C y1" Biochem. Biophys. Res. Commun. (1991) Vol. 179, pp. 217-223.				
	AAR	Ohmichi, et al. "Activation of Phosphatidylinositol-3 by Nerve Growth Factor Involves Indirect Coupling of the trk Proto-Oncogene with src Homology 2 Domains" Neuron (1992) Vol. 9, pp. 769-777.				
	AAS	Persson, et al. "Role and Expression of Neurotrophins and the trk Family of Tyrosine Kinase Receptors in Neural Growth and Rescue After Injury" Current Opinion in Neurology and Neurosurgery (1993) Vol. 6, p. 11.				
	AAT	Pulido, et al. "Dtrk, A Drosophila Gene Related to the trk Family of Neurotrophin Receptors, Encodes A Novel Class of Neural Cell Adhesion Molecule" Ebro (1992) Vol. 11, pp. 391-404.				
	AAU	Radeke, et al. "Gene Transfer and Molecular Cloning of the Rat Nerve Growth Factor Receptor" Nature (1987) Vol. 325, 593-597.				
	AAV	Radeke, et al. "Analytical Purification of the Slow, High Affinity NGF Receptor: Identification of a Novel 135 kd Polypeptide" Neuron (1991) Vol. 7, pp. 141-150.				
	AAW	Ringden, et al. "Mitogenic Properties of Fab and F(ab') <sub>2</sub> Fragments of Rabbit Anti-Human β <sub>2</sub> -Microglobulin for Human Lymphocytes" <i>J. Immunol.</i> (1977) Vol. 6, pp. 281-289.				
·	AAX	Schechter, et al. "Novel Roles for Neurotrophins are Suggested by BDNF and NT-3 mRNA Expression in Developing Neurons" Cell (1981) Vol. 24, pp. 867-874.				

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Signature	Considered	

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INFORMATION DISCLOSURE					Filing Date	January 26, 2001	
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	AAY	Schecterson, et al. "Novel Roles for Neurotrophins are Suggested by BDNF and NT-3 mRNA Expression in Developing Neurons" Neuron (1992) Vol. 9, pp. 449-463.	
	AAZ	Schneider, et al." A Novel Molecular Mosaic of Cell Adhesion Motifs in the Extracellular Domains of the Neurogenic trk and trkB Tyrosine Kinase Receptors" Oncogene (1991) Vol. 6, pp. 1807-1811.	
	AAAA	Schodin, et al. "Binding Affinity and Inhibitory Properties of a Single-Chain Anti-T Cell Receptor Antibody" <i>The J. of Biological Chemistry</i> (December 1993) Vol. 268(34), pp. 25722-25727.	
	AAAB	Steele-Perkins, et al. "Insulin-mimetic Anti-insulin Receptor Monoclonal Antibodies Stimulate Receptor Kinase Activity in Intact Cells" J. Biol. Chem. (June 1990) Vol. 265(16), pp. 9458-9463.	
	AAAC	Sutter, et al. "Nerve Growth Factor Receptors" J. Biol. Chem. (1979) Vol. 254, pp. 5972-5982.	
	AAAD	Vetter, et al. "Nerve Growth Factor Rapidly Stimulates Tyrosine Phosphorylation Phospholipase C-y1 by a Kinase Activity Associated with the Product of the trk Proto-oncogene" Proc. Natl. Acad. Sci. USA (1991) Vol. 88, pp. 5650-5654.	
	AAAE	Weskamp, et al. "Evidence that Biological Activity of NGF is Mediated Through a Novel Subclass of High Affinity Receptors" Neuron. (1991) Vol. 6, pp. 649-663.	
	AAAF	Wheeler, et al. J. "Spatiotemporal Patterns of Expression of NGF and the Low-Affinity NGF Receptor in Rat Embryos Suggest Functional Roles in Tissue Morphogenesis and Myogenesis" Neurosci. (1992) Vol. 12, pp. 930-945.	
	AAAG	Wyatt, et al. "Expression of the NGF Receptor Gene in Sensory Neurons and Their Cutaneous Targets Prior to and During Innervation" Neuron. (1990) Vol. 4, pp. 421-427.	
	АААН	Xie. et al. "Direct Demonstration of MuSK Involvement in Acetylcholine Receptor Clustering Through Identification of Agonist ScFv" Nature Biotechnology (August 1997) Vol. 15, pp. 768-771.	

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